

10/533208

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/533,208
Source: PU
Date Processed by STIC: 6/30/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/30/2006

PATENT APPLICATION: US/10/533,208

TIME: 08:48:24

Input Set : F:\INV4-11WO.ST25.txt

Output Set: N:\CRF4\06302006\J533208.raw

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3 <110> APPLICANT: Invitrogen Corporation
5 <120> TITLE OF INVENTION: ARRAY OLIGOMER SYNTHESIS AND USE
7 <130> FILE REFERENCE: INV850/4-011WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/533,208
C--> 10 <141> CURRENT FILING DATE: 2005-04-28
12 <150> PRIOR APPLICATION NUMBER: 60/421,942
13 <151> PRIOR FILING DATE: 2002-10-28
15 <160> NUMBER OF SEQ ID NOS: 129
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 80
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Oligonucleotide probes
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <222> LOCATION: (40)..(40)
31 <223> OTHER INFORMATION: n = reverse Uridine
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (80)..(80)
36 <223> OTHER INFORMATION: n = reverse Uridine
38 <400> SEQUENCE: 1
W--> 39 caaggatctt accgctgttg tgaggagact tgcctggtgn taatacgact cactataggt      60
41 ctgcaggaac tggatcaggn                                     80
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 81
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Oligonucleotide probes
53 <220> FEATURE:
54 <221> NAME/KEY: misc_feature
55 <222> LOCATION: (41)..(41)
56 <223> OTHER INFORMATION: n = reverse Uridine
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
60 <222> LOCATION: (81)..(81)
61 <223> OTHER INFORMATION: n = reverse Uridine
63 <400> SEQUENCE: 2
W--> 64 caaggatctt accgctgttg gtgaccctgc agagatatct ntaatacgac tcactatagg      60
66 gttccggaag taggtgatgt n                                     81

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69 <210> SEQ ID NO: 3
70 <211> LENGTH: 80
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Oligonucleotide probes
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (41)..(41)
81 <223> OTHER INFORMATION: n = reverse Uridine
83 <220> FEATURE:
84 <221> NAME/KEY: misc_feature
85 <222> LOCATION: (80)..(80)
86 <223> OTHER INFORMATION: n = reverse Uridine
88 <400> SEQUENCE: 3
W--> 89 caaggatctt accgctgttg gattggcatt gccatgggat ntaatagcag tcactatagg 60
91 tccacagcag ctacgatggn 80
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 81
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Oligonucleotide probes
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (40)..(40)
106 <223> OTHER INFORMATION: n = reverse Uridine
108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <222> LOCATION: (81)..(81)
111 <223> OTHER INFORMATION: n = reverse Uridine
113 <400> SEQUENCE: 4
W--> 114 caaggatctt accgctgttg tgaggagact tgcctggtgn cgctccagac ttgagtccga 60
116 tctgcaggaa ctggatcagg n 81
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 82
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Oligonucleotide probes
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (41)..(41)
131 <223> OTHER INFORMATION: n = reverse Uridine
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <222> LOCATION: (82)..(82)
136 <223> OTHER INFORMATION: n = reverse Uridine
138 <400> SEQUENCE: 5

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W--> 139 caaggatctt accgctgttg gtgaccctgc agagatatct ncgctccaga cttgagtccg      60
141 agttccggaa gtaggtgatg tn                                           82
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 81
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Oligonucleotide probes
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (41)..(41)
156 <223> OTHER INFORMATION: n = reverse Uridine
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: (81)..(81)
161 <223> OTHER INFORMATION: n = reverse Uridine
163 <400> SEQUENCE: 6

W--> 164 caaggatctt accgctgttg gattggcatt gccatgggat ncgctccaga cttgagtccg      60
166 atccacagca gctacgatgg n                                           81
169 <210> SEQ ID NO: 7
170 <211> LENGTH: 26
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Oligonucleotide probes
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <222> LOCATION: (11)..(11)
181 <223> OTHER INFORMATION: n = 5' phosphoramidite with 2'-acetyl and 3'-DMT
183 <400> SEQUENCE: 7

W--> 184 tttttttttt ngtcacagc atccga                                           26
187 <210> SEQ ID NO: 8
188 <211> LENGTH: 26
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Oligonucleotide probes
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (11)..(11)
199 <223> OTHER INFORMATION: n = 3' phosphoramidite with 2'-fpmp and 5' DMT
201 <400> SEQUENCE: 8

W--> 202 tttttttttt ngtcacagc atccga                                           26
205 <210> SEQ ID NO: 9
206 <211> LENGTH: 27
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Oligonucleotide probes

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214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (11)..(11)
217 <223> OTHER INFORMATION: n = 2'-deoxyuridine
219 <400> SEQUENCE: 9
W--> 220 tttttttttt ndgtccacag catccga 27
223 <210> SEQ ID NO: 10
224 <211> LENGTH: 46
225 <212> TYPE: DNA
226 <213> ORGANISM: Aequorea victoria
228 <400> SEQUENCE: 10
229 atgagtaaag gagaagaact tttcactgga gttgtcccaa ttcttg 46
232 <210> SEQ ID NO: 11
233 <211> LENGTH: 44
234 <212> TYPE: DNA
235 <213> ORGANISM: Aequorea victoria
237 <400> SEQUENCE: 11
238 ttgaattaga tggatgatgtt aatgggcaca aattttctgt cagt 44
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 41
243 <212> TYPE: DNA
244 <213> ORGANISM: Aequorea victoria
246 <400> SEQUENCE: 12
247 ggagagggtg aaggtgatgc aacatacgga aaacttaccc t 41
250 <210> SEQ ID NO: 13
251 <211> LENGTH: 44
252 <212> TYPE: DNA
253 <213> ORGANISM: Aequorea victoria
255 <400> SEQUENCE: 13
256 taaatttatt tgcactactg gaaaactacc tgttccatgg ccaa 44
259 <210> SEQ ID NO: 14
260 <211> LENGTH: 46
261 <212> TYPE: DNA
262 <213> ORGANISM: Aequorea victoria
264 <400> SEQUENCE: 14
265 cacttgtcac tactttctct tatggtgttc aatgcttttc aagata 46
268 <210> SEQ ID NO: 15
269 <211> LENGTH: 42
270 <212> TYPE: DNA
271 <213> ORGANISM: Aequorea victoria
273 <400> SEQUENCE: 15
274 cccagatcat atgaaacggc atgacttttt caagagtgcc at 42
277 <210> SEQ ID NO: 16
278 <211> LENGTH: 44
279 <212> TYPE: DNA
280 <213> ORGANISM: Aequorea victoria
282 <400> SEQUENCE: 16
283 gcccgaaggt tatgtacagg aaagaactat atttttcaaa gatg 44
286 <210> SEQ ID NO: 17

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Input Set : F:\INV4-11WO.ST25.txt

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287 <211> LENGTH: 41
288 <212> TYPE: DNA
289 <213> ORGANISM: Aequorea victoria
291 <400> SEQUENCE: 17
292 acgggaacta caagacacgt gctgaagtca agtttgaagg t          41
295 <210> SEQ ID NO: 18
296 <211> LENGTH: 46
297 <212> TYPE: DNA
298 <213> ORGANISM: Aequorea victoria
300 <400> SEQUENCE: 18
301 gatacccttg ttaatagaat cgagttaaaa ggtattgatt ttaaag      46
304 <210> SEQ ID NO: 19
305 <211> LENGTH: 46
306 <212> TYPE: DNA
307 <213> ORGANISM: Aequorea victoria
309 <400> SEQUENCE: 19
310 aagatggaaa cattcttgga cacaaattgg aatacaacta taactc      46
313 <210> SEQ ID NO: 20
314 <211> LENGTH: 45
315 <212> TYPE: DNA
316 <213> ORGANISM: Aequorea victoria
318 <400> SEQUENCE: 20
319 acacaatgta tacatcatgg cagacaaaca aaagaatgga atcaa      45
322 <210> SEQ ID NO: 21
323 <211> LENGTH: 45
324 <212> TYPE: DNA
325 <213> ORGANISM: Aequorea victoria
327 <400> SEQUENCE: 21
328 agttaacttc aaaattagac acaacattga agatggaagc gttca      45
331 <210> SEQ ID NO: 22
332 <211> LENGTH: 42
333 <212> TYPE: DNA
334 <213> ORGANISM: Aequorea victoria
336 <400> SEQUENCE: 22
337 actagcagac cattatcaac aaaatactcc aattggcgat gg          42
340 <210> SEQ ID NO: 23
341 <211> LENGTH: 41
342 <212> TYPE: DNA
343 <213> ORGANISM: Aequorea victoria
345 <400> SEQUENCE: 23
346 ccctgtcctt ttaccagaca accattacct gtccacacaa t          41
349 <210> SEQ ID NO: 24
350 <211> LENGTH: 41
351 <212> TYPE: DNA
352 <213> ORGANISM: Aequorea victoria
354 <400> SEQUENCE: 24
355 ctgccctttc gaaagatccc aacgaaaaga gagaccacat g          41
358 <210> SEQ ID NO: 25
359 <211> LENGTH: 42

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/533,208

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Input Set : F:\INV4-11WO.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 40,80
Seq#:2; N Pos. 41,81
Seq#:3; N Pos. 41,80
Seq#:4; N Pos. 40,81
Seq#:5; N Pos. 41,82
Seq#:6; N Pos. 41,81
Seq#:7; N Pos. 11
Seq#:8; N Pos. 11
Seq#:9; N Pos. 11

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,44,45,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62
Seq#:63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86
Seq#:87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107
Seq#:108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125
Seq#:126,127,128

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/533,208

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Input Set : F:\INV4-11WO.ST25.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
 M:341 Repeated in SeqNo=1
 L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
 M:341 Repeated in SeqNo=2
 L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
 M:341 Repeated in SeqNo=3
 L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
 M:341 Repeated in SeqNo=4
 L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
 M:341 Repeated in SeqNo=5
 L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
 M:341 Repeated in SeqNo=6
 L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
 L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
 L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0